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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
WASHINGTON, D.C. 20546

OFFICE OF THE ADMINISTRATOR

1 APR 1968

Mr. Arthur Lundhal
Director
National Photographic Interpretation Center
Washington, D. C.

Dear Art:

You will remember that after the ARGO briefings on March 6, 1968, we had a short discussion which included NASA's plans for flying a 3-inch focal length Maurer frame camera on the Apollo 6 Mission, now scheduled for April 3, 1968. A few days later Mr. Krueger provided you with more details on the mission and sensor.

May we request that the NPIC review this photography to provide NASA information on how good the photography is qualitatively and quantitatively and what information can be obtained from these materials. We trust that such a review would be of mutual benefit in support of your color experimentation; color photography will be obtained with very low sun attitudes.

We plan to provide Mr. Tidwell with a master duplicate positive of the entire mission and believe this dupe will meet your needs. If this is not sufficient please let me know.

The information your people have been providing NASA in the area of color film technology is very much appreciated.

Regards,

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Leonard Jaffe
Director, Space Applications
Programs

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SECRET

This document consists of ___ pages
No. 1 of 2 Copies, Series B

MEMORANDUM FOR: CH/TSSG

John:

I believe [redacted] is already working on this project. Please keep the O/DIR informed on this one. It is a high interest item.

Lou F.

4/10
(DATE)

FORM NO. 1 AUG 54 101 REPLACES FORM 10-101 WHICH MAY BE USED. (47)

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Return to TSSG Chronology.

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[redacted] is in the process of preparing a write up on this mission which should be complete about 23/April/68.

Tom K.
4/16/68

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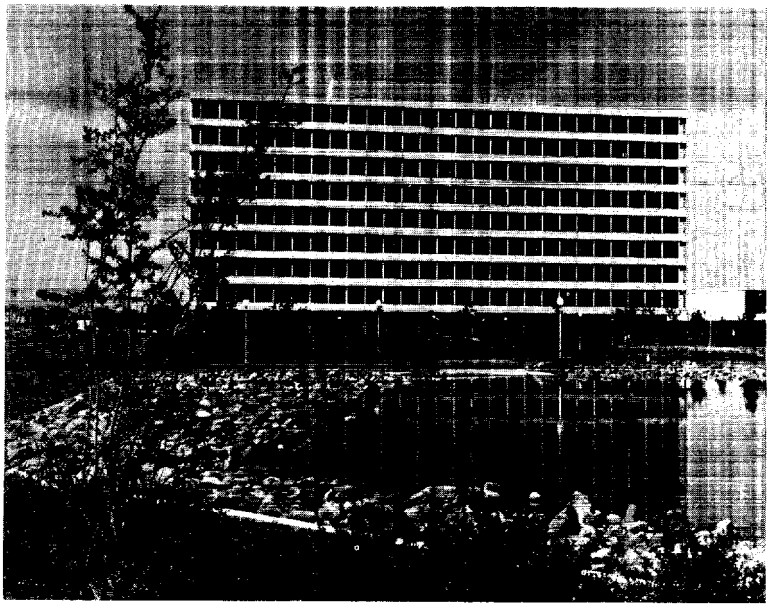
MANNED SPACECRAFT CENTER FACILITIES AND FUNCTIONS



ADMINISTRATION BUILDING

MANAGEMENT OF THE MANNED SPACECRAFT CENTER INVOLVES MANY ADMINISTRATIVE FUNCTIONS IN TECHNICAL, ENGINEERING, AND LEGAL SERVICES; PROCUREMENT OF EQUIPMENT, FACILITIES, AND CONTRACTUAL SERVICES; AND THE DIRECTION OF PERSONNEL AND SPACE FLIGHT OPERATIONS.

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A PERSONAL WELCOME TO THE MANNED SPACECRAFT CENTER

As Director of this Center, one of NASA's newest and largest research and development facilities, I offer you a hearty welcome. The Manned Spacecraft Center serves as a focal point for this nation's manned spaceflight program.

The facilities that exist at this Center form a national resource for accomplishing a five-fold job:

- First, we are responsible for developing the technology required for manned spacecraft in present and future programs.
- Second, we manage the efforts of industry, in the detailed design, development, and fabrication of spacecraft for on-going programs.
- Third, we have the responsibility for selecting and training the Astronauts for NASA's manned spaceflights.
- Fourth, we exercise control over the NASA manned spaceflights from the time of launch until a safe landing is accomplished, and
- Fifth, we manage the medical, scientific, and engineering experiments that are conducted during manned spaceflights.

In all of this effort we are assisted and supported by other NASA Centers, by various other civilian government agencies, the Department of Defense, many universities, and many other nations in the free world.

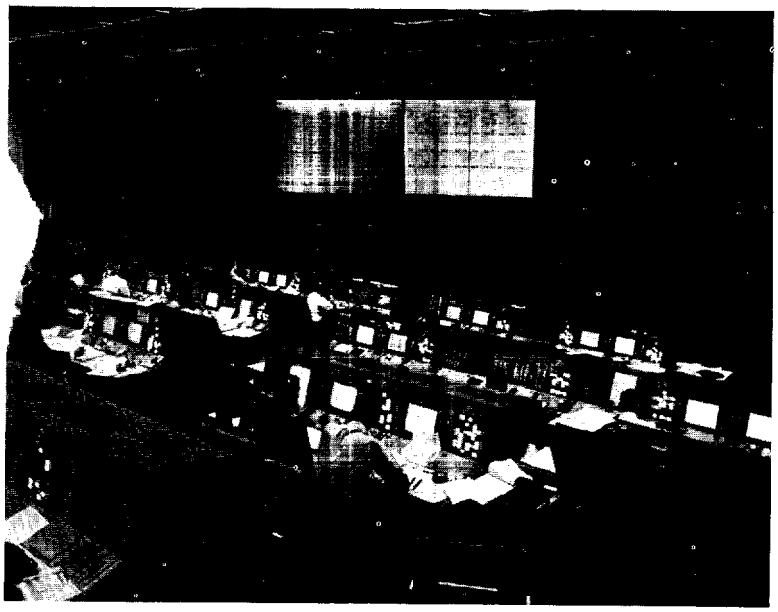
We have successfully completed the Mercury and Gemini programs which gave us our first experience with man's capabilities in space flight and our first opportunity to develop many of the operational techniques upon which the Apollo Lunar Landing Program depends. The Apollo Program was established as a national goal in 1961 to develop the industrial, technological, and management capabilities required to make the United States pre-eminent in this new age of technology and able to carry out our national aim of exploring space for the benefit of all mankind.

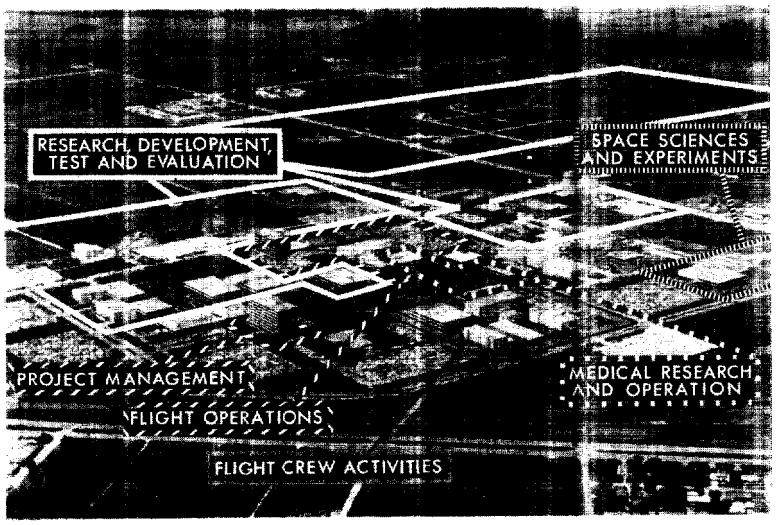
On behalf of all of our management, engineering, scientific, and support personnel we are pleased to present to you this brief story of our program and facilities.

Robert R. Gilruth
Director

MISSION CONTROL

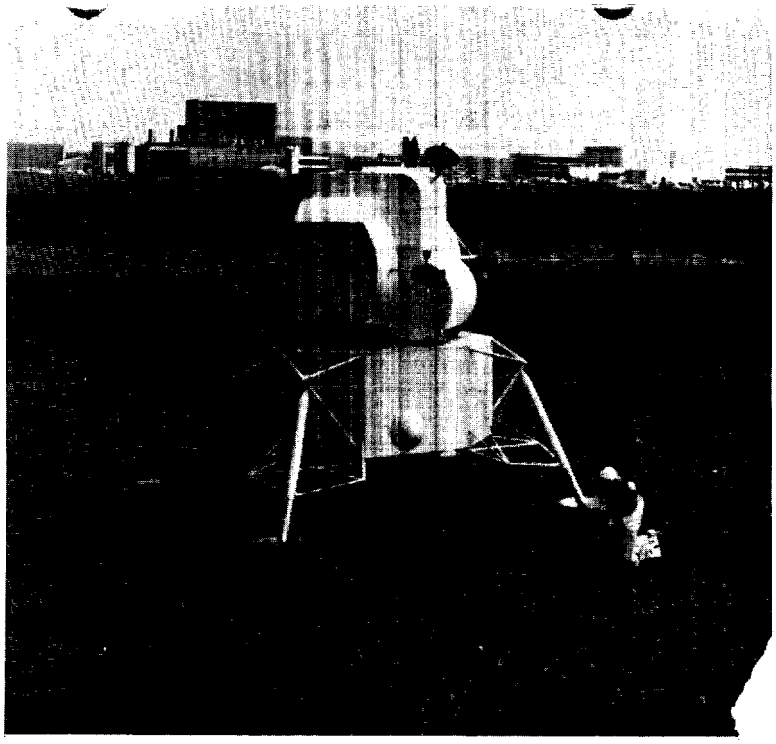
MANNED SPACE FLIGHT MISSIONS ARE MONITORED AND CONTROLLED, FROM LIFTOFF TO RECOVERY, FROM THE HOUSTON MISSION CONTROL CENTER. A MAJORITY OF THE PERSONNEL AND MUCH OF THE EQUIPMENT REQUIRED TO SUPPORT THE MISSION CONTROL FUNCTION ARE HOUSED IN THIS FACILITY. MISSION SIMULATIONS AND TESTS OF THE TRACKING NETWORK ARE ALSO CONDUCTED HERE.





AREAS OF RESPONSIBILITY

THE MANNED SPACECRAFT CENTER, ONE OF MANY NASA INSTALLATIONS IN THE UNITED STATES, IS ORGANIZED INTO THE MAJOR AREAS SHOWN ABOVE FOR CARRYING OUT ITS PRIME RESPONSIBILITY OF PLANNING AND DIRECTING THE U.S. MANNED SPACE FLIGHT PROGRAM.



LUNAR LANDSCAPE SIMULATION

THE TEST SUBJECT IS UNDERGOING A TRAINING AND TESTING EXERCISE AT THE LUNAR TOPOGRAPHICAL SIMULATION AREA. HE IS USING APOLLO EQUIPMENT AND IS STANDING BESIDE A FULL SCALE MOCKUP OF THE LUNAR MODULE.

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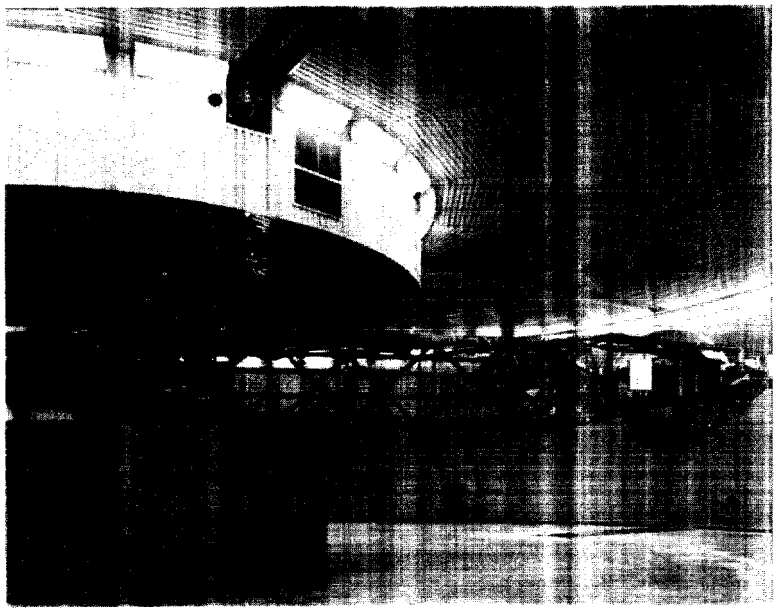
FLIGHT ACCELERATION FACILITY

THE FLIGHT ACCELERATION FACILITY IS A MAN-RATED CENTRIFUGE DESIGNED TO TRAIN CREWS, TEST EQUIPMENT, AND EVALUATE THE PHYSIOLOGY OF MEN UNDER SPACE FLIGHT STRESSES. OTHER FLIGHT TRAINING FACILITIES INCLUDE FLIGHT SIMULATORS AND THE TRANSLATION AND DOCKING SIMULATION FACILITY.



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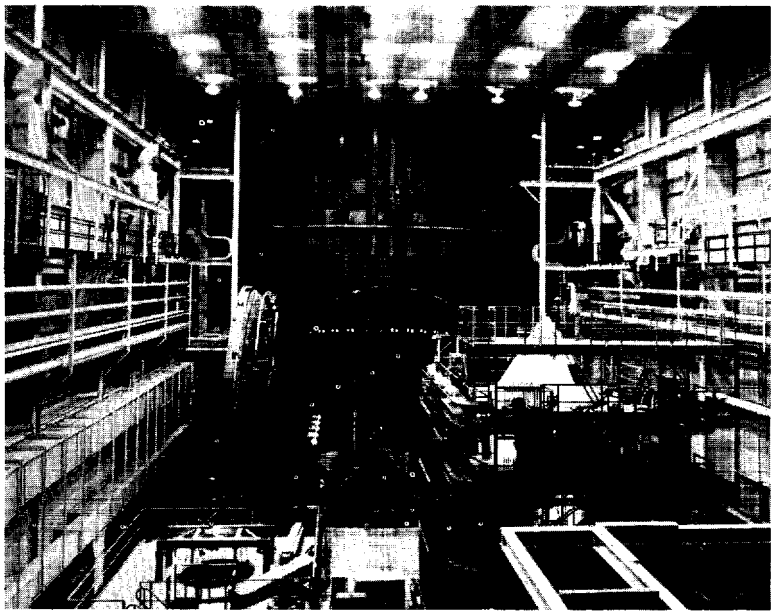

SPACE ENVIRONMENT SIMULATION

THE SPACE ENVIRONMENT SIMULATION LABORATORY CONTAINS TWO LARGE VACUUM CHAMBERS DESIGNED TO SIMULATE THE PRESSURE, EXTREME TEMPERATURES, AND LIGHTING CONDITIONS OF SPACE. SPACECRAFT AND MISSION EQUIPMENT ARE TESTED IN SIMULATED SPACE ENVIRONMENTS IN THESE CHAMBERS.

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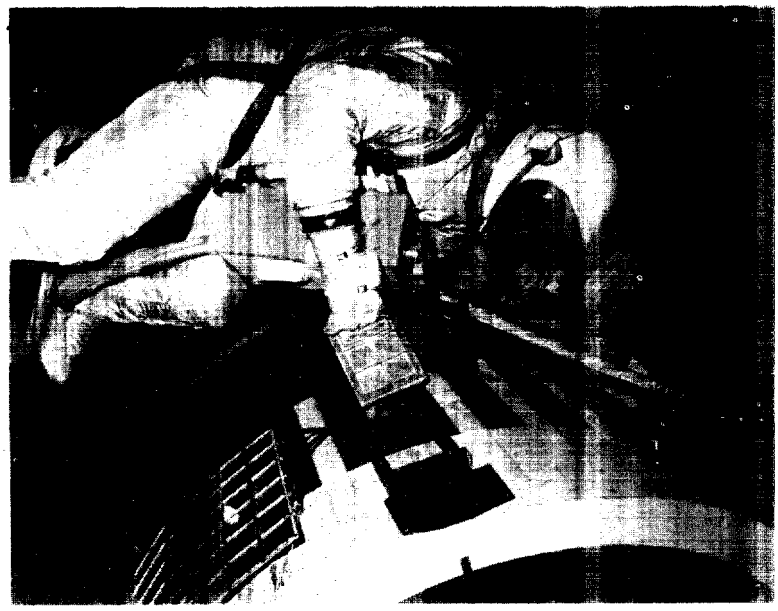
ASTRONAUT TRAINING

ASTRONAUTS ARE GIVEN RIGOROUS AND THOROUGH TRAINING TO KEEP THEM UPDATED IN SPACE MISSION DEVELOPMENTS. TRAINING RANGES FROM LAUNCH AND FLIGHT EXERCISES TO EGRESS AND SURVIVAL TRAINING. THE ASTRONAUT PICTURED BELOW IS PRACTICING THE REMOVAL OF AN EXPERIMENT PACKAGE IN A RELATIVELY WEIGHTLESS CONDITION PRODUCED BY FLYING AN AIRCRAFT IN A PARABOLIC CURVE



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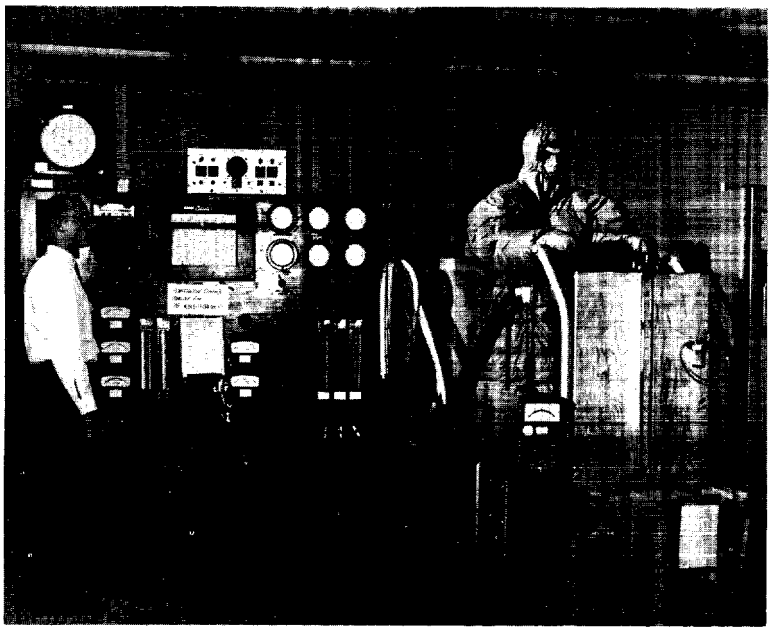

CREW EQUIPMENT TESTING

CREW EQUIPMENT FOR USE IN SPACE FLIGHT IS DEVELOPED AND TESTED AT THE MANNED SPACECRAFT CENTER. THE SUBJECTS IN THE PICTURE ARE TESTING A WATERCOOLED GARMENT TO BE WORN INSIDE A SPACESUIT TO REGULATE TEMPERATURE.

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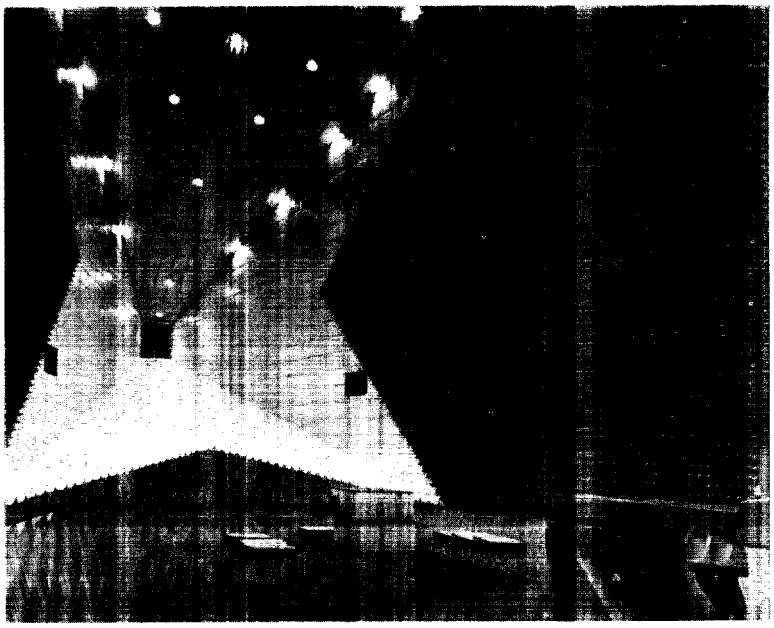
ANECHOIC CHAMBER

IN THE ANECHOIC CHAMBER TEST FACILITY, SPACECRAFT COMMUNICATIONS SYSTEMS ARE TESTED IN AN ECHO-FREE SIMULATED SPACE ENVIRONMENT. THE CHAMBER IS LINED WITH THOUSANDS OF CARBON-FILLED FOAM PYRAMIDS THAT ABSORB RADIO AND OTHER ELECTROMAGNETIC WAVES.



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